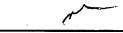


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,635	09/18/2003	Mitsuhiro Nakamura	. FUJY 20.628	5071
26304 KATTEN MU	7590 06/27/2007 CHIN ROSENMAN LLP		EXAMINER	
575 MADISON AVENUE		·	HOANG, HIEU T	
NEW YORK,	NY 10022-2585		ART UNIT	PAPER NUMBER
			2152	
			MAIL DATE	DELIVERY MODE
		•	06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/664,635	NAKAMURA, MITSUHIRO			
Office Action Summary	Examiner	Art Unit			
·	Hieu T. Hoang	2152			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•				
1) Responsive to communication(s) filed on 18 Se					
,—	, <u> </u>				
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents 3. Copies of the certified copies of the priority documents 3. See the attached detailed Office action for a list 	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01/18/06, 09/18/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

- 1. This office action is in response to the communication filed on 09/18/2003.
- 2. Claims 1-10 are pending and presented for examination.

Drawings

3. Figure 25 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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5. Claims 1-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Pan et al. (Processing Overhead Studies in Resource Reservation Protocols, September 24-28, 2001, http://www1.cs.columbia.edu/~pingpan/paper_list.html, Papers section).

- 6. For claim 1, Pan discloses a resource management method for managing resources in a label switching network, comprising:
 - retaining a bandwidth of an on-reservation session and a bandwidth of an on-communication session (section 4, par. 2, fig. 6, sender establishes a reservation by sending flowspec to all receivers, each router along the way attempts to perform a resource reservation upon the reception of the flowspec or based on traffics statistics and timing information provided in the messages, if a resource reservation is successful the resource (bandwidth) is retained for that flow or session); and
 - executing periodical re-setting of a path with respect to the bandwidth occupied by the on-reservation session (section 2.4, lines 5-13, page 5, if...else, if a resource reservation attempt is failed (not available bandwidth to fulfill a reservation request), retry resource reservation at each refresh cycle).
- 7. For claim 2, Pan further discloses recording a failure count, for a fixed period, of a link causing a failure in a reservation request in a previous period; and fluctuating a weight of the link that tends to cause the failure on the basis of a history of the failure

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count (page 4, last 3 lines, suspend misbehaving flows, flows that have failed their end-to-end reservation attempt too mane times are ignored by routers, leaving resources for other flows, meaning the weight of a flow (priority of the flow) is changed according to its reservation failure counts).

- 8. For claim 3, Pan further discloses fluctuating a re-setting period of the path in accordance with the reservation request failure count (page 5, par. 2, page 8, table 1, retry interval is based on number of reservation request failure count).
- 9. For claim 4, Pan discloses a reservation path optimization system for optimizing a reservation path between specified nodes configuring a network, comprising:
 - a reservation path setting module for setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes (section 4, par. 2, fig. 6, sender establishes a reservation by sending flowspec to all receivers, each router along the way attempts to perform a resource reservation upon the reception of the flowspec or based on traffics statistics and timing information provided in the messages, if a resource reservation is successful the resource (bandwidth) is retained for that flow or session); and
 - a reservation path re-setting module for periodically re-setting the reservation
 path on the basis of the bandwidth set by said reservation path setting module
 (section 2.4, lines 5-13, if a resource reservation attempt is failed, retry resource
 reservation at each refresh cycle).

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10. For claim 5, Pan discloses a reservation path optimization system for optimizing a reservation path between specified nodes configuring a label switching network, comprising:

- a reservation path setting module for setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes (section 4, par. 2, fig. 6, sender establishes a reservation by sending flowspec to all receivers, each router along the way attempts to perform a resource reservation upon the reception of the flowspec or based on traffics statistics and timing information provided in the messages, if a resource reservation is successful the resource (bandwidth) is retained for that flow or session); and
- a reservation path re-setting module for re-setting the reservation path set by said reservation path setting module (section 2.4, lines 5-13, if a resource reservation attempt is failed, retry resource reservation at each refresh cycle).
- 11. For claim 6, Pan further discloses the reservation path re-setting module periodically re-sets the reservation path on the basis of the bandwidth set by said reservation path setting module (section 2.4, page 5, if...else statement, if available bandwidth is more than requested bandwidth, reserve the session, else, lines 5-13, if a resource reservation attempt is failed, retry resource reservation at each refresh cycle).

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12. For claim 7, Pan further discloses the reservation path re-setting module periodically re-sets the reservation path on the basis of specified algorithm (page 5, reset based on number of failure retries).

- 13. For claim 8, Pan further discloses a module for fluctuating the period (section 2.4, par. 3, retry period is not necessarily fixed).
- 14. For claim 10, Pan discloses a reservation path optimization method for optimizing a reservation path between specified nodes configuring a network, comprising:
 - setting the reservation path and a bandwidth for establishing a predetermined session between specified nodes (section 4, par. 2, fig. 6, sender establishes a reservation by sending flowspec to all receivers, each router along the way attempts to perform a resource reservation upon the reception of the flowspec or based on traffics statistics and timing information provided in the messages, if a resource reservation is successful the resource (bandwidth) is retained for that flow or session); and
 - periodically re-setting the reservation path on the basis of the bandwidth set by said reservation path setting (section 2.4, lines 5-13, page 5, if a resource reservation attempt is failed (not available bandwidth to fulfill a reservation request), retry resource reservation at each refresh cycle).

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Claim Rejections - 35 USC § 103

15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pan as applied to claim 4 above, and further in view of Ashwood-Smith et al. (Generalized MPLS Signaling RSVP-TE Extensions, October 2001)
- 17. For claim 9, Pan discloses the invention as in claim 4. Pan does not explicitly disclose the label switching network is an MPLS network, and the reservation path is Label Switched Path.

However, Ashwood-Smith discloses the same (abstract, a generalized MPLS signaling scheme with resource reservation extension)

Therefore, it would have been obvious for one skilled in the art at the time of the invention to combine the teachings of Pan and Ashwood-Smith to employ resource reservation retry method of Pan to a MPLS scheme.

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Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Sharma et al. US 2002/0093961. Circuit establishment and tear down.
- Ishibashi et al. US 2003/0147352. Path establishment method.

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ly

HH

BUNJOB JAROENCHONWANIT SUPERVISORY PATENT EXAMINER